



C20-CM-105

7025

BOARD DIPLOMA EXAMINATION, (C-20)

FEBRUARY/MARCH —2022

DCME - FIRST YEAR EXAMINATION

BASICS OF COMPUTER ENGINEERING

Time : 3 hours ]

[ Total Marks : 80

**PART—A**

3×10=30

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **three** marks.  
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List any four input and output devices.
2. Compare primary memory and secondary memory.
3. Define the terms algorithm and program.
4. Draw the symbols used in flowcharts.
5. List various functions of operating system.
6. Write the procedure to search a file in computer.
7. Write the differences between hardware and software.
8. What is Internet?
9. Write the applications of machine learning.
10. What is big data?

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **eight** marks.  
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Draw and explain the block diagram of a computer.

**(OR)**

(b) Explain the characteristics of a computer.

12. (a) Draw a flowchart and algorithm to calculate the circumference of a circle.

**(OR)**

(b) Write an algorithm and flowchart to find the given number is even or odd.

13. (a) Explain about any eight internal DOS commands.

**(OR)**

(b) Explain the procedure for installing and uninstalling a hardware using control panel.

14. (a) Explain different types of software.

**(OR)**

(b) What is computer network? Explain about LAN and WAN.

15. (a) Explain the classifications in machine learning.

**(OR)**

(b) Explain different phases in ethical hacking.



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**PART—C**

10×1=10

- Instructions :** (1) Answer the following question.  
(2) The question carries **ten** marks.

**16.** What is an IP address? Explain address formats of an IP address.

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